

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P565099

Luminaire Tested: **SQ4-PW1-150U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565099  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-050D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

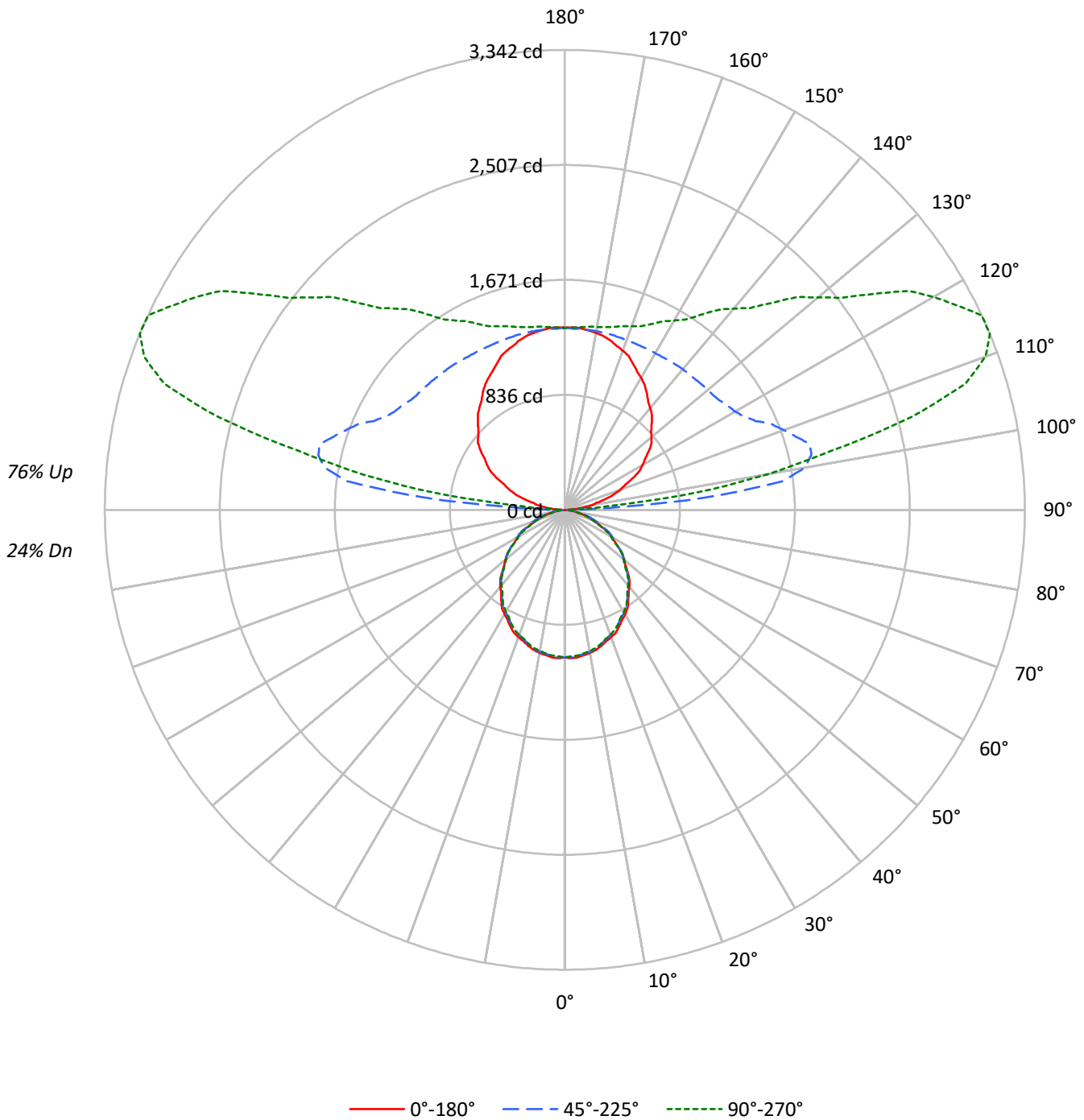
Lumens per Lamp: N/A  
Luminaire Lumens: 11261.5 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 84.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24				24
1	92	88	84	81	82	78	75	72	60	58	57	44	43	42	29	28	27				21	
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23				17	
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	22	21	20				15	
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17				13	
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15				11	
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13				10	
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11				9	
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10				8	
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9				7	
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8				6	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6599	6599	6599
5°	6642	6590	6560
10°	6589	6536	6501
15°	6519	6447	6423
20°	6441	6342	6330
25°	6352	6236	6217
30°	6217	6123	6082
35°	6041	5955	5920
40°	5852	5761	5739
45°	5624	5551	5525
50°	5391	5346	5310
55°	5140	5140	5058
60°	4826	4919	4745
65°	4416	4637	4307
70°	3893	4268	3791
75°	3325	3819	3234
80°	2579	3213	2611
85°	1666	2470	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	0.9
10°-20°	285.2	2.5
20°-30°	423.1	3.8
30°-40°	495.1	4.4
40°-50°	492.9	4.4
50°-60°	425.6	3.8
60°-70°	306.4	2.7
70°-80°	160.7	1.4
80°-90°	42.6	0.4
90°-100°	614.8	5.5
100°-110°	1662.2	14.8
110°-120°	1747.6	15.5
120°-130°	1419.5	12.6
130°-140°	1113.5	9.9
140°-150°	854.6	7.6
150°-160°	614.6	5.5
160°-170°	375.5	3.3
170°-180°	126.6	1.1
0°-30°	809.4	7.2
0°-40°	1304.5	11.6
0°-60°	2222.9	19.7
0°-90°	2732.6	24.3
90°-120°	4024.6	35.7
90°-150°	7412.3	65.8
90°-180°	8529.0	75.7
0°-180°	11261.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1076	1064	1067	1064	1062	102
15°	1024	1011	1012	1010	1009	289
25°	936	920	919	913	916	430
35°	804	793	793	786	788	503
45°	647	641	638	636	635	499
55°	479	478	479	473	472	428
65°	303	313	319	306	296	301
75°	140	153	161	150	136	150
85°	24	31	35	33	31	31
90°	3	8	18	20	18	7
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1079.0	1070.1	1072.9	1070.5	1065.4
5°	1075.8	1063.7	1067.3	1064.4	1062.5
7.5°	1064.8	1053.7	1056.3	1053.2	1052.1
10°	1055.0	1043.9	1046.5	1042.6	1040.8
12.5°	1043.6	1031.8	1034.4	1030.5	1029.4
15°	1023.8	1010.8	1012.4	1010.5	1008.6
17.5°	1000.7	987.6	987.8	984.8	984.4
20°	984.1	970.2	968.9	965.2	967.0
22.5°	965.9	951.3	950.0	944.8	947.4
25°	935.9	920.1	918.8	913.2	916.0
27.5°	901.1	885.5	885.6	877.7	880.6
30°	875.4	860.6	862.1	852.8	856.4
32.5°	848.1	834.8	835.7	826.3	830.0
35°	804.5	793.4	793.1	785.6	788.4
37.5°	759.8	750.0	748.5	744.2	744.9
40°	728.8	720.5	717.5	714.7	714.7
42.5°	696.3	688.7	685.7	683.6	682.9
45°	646.6	641.0	638.1	636.2	635.2
47.5°	597.4	592.3	589.7	588.3	587.4
50°	563.4	559.7	558.7	555.8	554.9
52.5°	529.4	527.2	526.2	522.5	521.6
55°	479.3	478.3	479.3	472.6	471.7
57.5°	427.1	428.6	431.6	422.7	420.5
60°	392.3	396.0	399.9	389.4	385.7
62.5°	356.8	362.7	368.1	356.1	350.9
65°	303.4	312.7	318.6	306.0	295.9
67.5°	252.0	263.5	270.5	257.1	245.6
70°	216.5	229.4	237.3	223.7	210.8
72.5°	185.5	199.9	206.3	193.5	180.6
75°	139.9	152.8	160.7	150.0	136.1
77.5°	99.3	111.5	118.0	108.6	97.2
80°	72.8	85.7	90.7	83.0	73.7
82.5°	51.6	62.3	65.8	61.1	54.8
85°	23.6	31.0	35.0	33.0	31.2
87.5°	6.6	12.9	18.1	18.4	18.8
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)